

Pitch. Here, I will stick to the definition used by The American National Standards Institute, Inc. (ANSI):

12.01 pitch. That attribute of auditory sensation in terms of which sounds may be ordered on a scale extending from low to high. Pitch depends primarily upon the frequency content of the sound stimulus, but it also depends upon the sound pressure and the waveform of the stimulus. Unit, mel.

NOTE—The pitch of a sound may be described by the frequency or frequency level of that simple tone having a specified sound pressure level that is judged by listeners to produce the same pitch.

Pitches of different octaves have different notations in different countries, but luckily, ANSI has a simple terminology that has been accepted among scientists all over the world, and is getting more and more utilized among musicians. Each octave (C through B) has a subscript index (e.g., the 440 Hz A is called A₄):

Table 13.2 – Frequencies in hertz (Hz) and frequency levels in semitones counted (sc) up from C₀ for the usual equally tempered scale. Subscripts by octaves above C₀. C₀ approximately equals 16.352 Hz so that A₄ = 440 Hz exactly

Frequency			Frequency			Frequency		
Note	Level, sc	Frequency, Hz	Note	Level, sc	Frequency, Hz	Note	Level, sc	Frequency, Hz
B ₂	35	123.47	B ₅	71	987.77	B ₈	107	7902.1
	34	116.54		70	932.33		106	7458.6
A ₂	33	110.00	A ₅	69	880.00	A ₈	105	7040.0
	32	103.83		68	830.61		104	6644.9
G ₂	31	97.999	G ₅	67	783.99	G ₈	103	6271.9
	30	92.499		66	739.99		102	5919.9
F ₂	29	87.307	F ₅	65	698.46	F ₈	101	5587.7
	E ₂	28		82.407	E ₅		64	659.26
27		77.782	63	622.25		99	4978.0	
D ₂	26	73.416	D ₅	62	587.33	D ₈	98	4698.6
	25	69.296		61	554.37		97	4434.9
C ₂	24	65.406	C ₅	60	523.25	C ₈	96	4186.0
	B ₁	23		61.735	B ₄		59	493.88
22		58.270	58	466.16		94	3729.3	
A ₁	21	55.000	A ₄	57	440.00	A ₇	93	3520.0
	20	51.913		56	415.30		92	3322.4
G ₁	19	48.999	G ₄	55	392.00	G ₇	91	3136.0
	18	46.249		54	369.99		90	2960.0
F ₁	17	43.654	F ₄	53	349.23	F ₇	89	2793.8
	E ₁	16		41.203	E ₄		52	329.63
15		38.891	51	311.13		87	2489.0	
D ₁	14	36.708	D ₄	50	293.66	D ₇	86	2349.3
	13	34.648		49	277.18		85	2217.5
C ₁	12	32.703	C ₄	48	261.63	C ₇	84	2093.0
	B ₀	11		30.868	B ₃		47	246.94
10		29.135	46	233.08		82	1864.7	
A ₀	9	27.500	A ₃	45	220.00	A ₆	81	1760.0
	8	25.957		44	207.65		80	1661.2
G ₀	7	24.500	G ₃	43	196.00	G ₆	79	1568.0
	6	23.125		42	185.00		78	1480.0
F ₀	5	21.827	F ₃	41	174.61	F ₆	77	1396.9
	E ₀	4		20.602	E ₃		40	164.81
3		19.445	39	155.56		75	1244.5	
D ₀	2	18.354	D ₃	38	146.83	D ₆	74	1174.7
	1	17.324		38	138.59		73	1108.7
C ₀	0	16.352	C ₃	36	130.81	C ₆	72	1046.5